Name: _____ Class: _____Due Date: _____

When solving the following problem, be sure to:

1) **Restate the <u>question</u>**
2) **State your <u>answer</u> in a complete sentence.**
3) **<u>List</u> facts and important information**
4) **<u>Explain</u> your solution strategy and include your <u>calculations</u>/work.**

Bank Balances

Currently Tamil has $600 in his bank account, while Nydiyah has $500 in hers.

Every Friday afternoon Tamil withdraws $15. At the same time Nydiyah withdraws $12 knowing that she can't spend as much as Tamil.

Will their account balances ever be equal? If they are ever equal, how many weeks will it take? If they are not ever equal, what's the smallest difference?

Your answer must include direct formulas that compute each child's bank balance and a graph that shows the account balances of each over time.

Extra: How much could Nydiyah withdraw each week so that they both run out of money at the same time?

Please answer the problem on a separate piece of paper. You must include all your calculations and an explanation of how you got your answer. Your paper will be scored in the following way:

- 4 The answer and the bonus are correct, you have included all your calculations, and the explanation is thorough and understandable.
- 3   The answer is correct, you have included all your calculations, and the explanation is complete and clear to the reader.
- 2 The answer is missing one of the items mentioned above.
- 1 The answer is incorrect, and the explanation or calculations are poor or missing.
- 0   Minimal or no effort was made to solve the problem.
- All late work is marked down a grade.